



REPORT ON DETAIL PLANS FOR SEWAGE AND INDUSTRIAL WASTE TREATMENT FACILITIES  
FOR GENERAL BIOCHEMICALS, BAINBRIDGE TOWNSHIP, GAUGA COUNTY.

On September 23, 1971, detail plans for sewage and industrial waste treatment facilities for General Biochemicals, Bainbridge Township, Gauga County were submitted to this office by the Cleveland Pump Supply Company.

The proposed new treatment facilities will replace the existing inadequate system for the southern portion of the plant grounds. The buildings on the northern portion of the grounds are still to be served by an existing settling tank and surface sand filter system.

BASIS OF DESIGN:

The treatment plant was designed on the basis of measured waste flow and strength. There are presently 59 employees that would be served by this plant. In addition industrial wastes generated from the production of various animal food supplements will be tributary to this system.

Flow - 2 gpm or 2880 gpd

BOD<sub>5</sub> - 700 mg/l

Total BOD<sub>5</sub> - 16.8 lbs/day

Plant capacity req. @ 80 cu. ft./lb BOD - 10,006 gal.

An 11,000 gpd extended aeration plant will be used.

PLANT DETAILS

Trash trap - existing 1200 gal. settling tank

Extended aeration plant - 11,000 gpd Aer-O-Flo

Dosing chamber - 600 gal. w/2 - 60 gpm submersible pumps

Surface sand filters - total 450 sq. ft. (standard design)

Chlorine contact tank - 84 gals. (60 gal. req'd) w/hypochlorinator

SEWERS

All gravity sewers will be 6 inch dia. C.I. with premium joints, laid at 0.60% grade.

Miscellaneous:

The treatment plant area will be enclosed with a 6ft. chain link fence. The effluent will discharge across their property to the stream presently being used. The standard installation and operation agreement has been submitted.

SUMMARY

Detail plans for the sewage and industrial waste treatment facilities for General Biochemicals, Bainbridge Township, Ceauga County, appear satisfactory. It is recommended that these plans be approved subject to the usual conditions.

R. L. Frato  
District Sanitary Engineer

RLF:sc  
October 6, 1971  
Cuyahoga Falls, Ohio